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Sda Filmo: 2

8-15-95

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OM protein - protein search, using sw model

November 16, 2001, 15:44:13; Search time 267.62 Seconds Run on:

(without alignments)

17.638 Million cell updates/sec

Title: US-09-011-797-2

Perfect score:

Sequence: 1 FGGFTGARKSARKLANQ 17

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 3148936 seqs, 277657034 residues

Total number of hits satisfying chosen parameters: 3148936

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Pending Patents AA Main:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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Result		Query				
No.	Score		Length	DB	ID	Description
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2	86	100.0	17	9	US-08-553-058A-5	Sequence 5, Appli
3	86	100.0	17	12	US-08-868-355-1	Sequence 1, Appli
4	86	100.0	17	13	US-08-927-328-1	Sequence 1, Appli
5	86	100.0	17	14	US-09-011-797-2	Sequence 2, Appli
6	86	100.0	17	14	US-09-048-916-5	Sequence 5, Appli
7	86	100.0	17	14	US-09-048-916-5	Sequence 5, Appli
8	86	100.0	17	14	US-09-048-916B-5	Sequence 5, Appli
9	86	100.0	17	15	US-09-114-620-1	Sequence 1, Appli
10	86	100.0	17	15	US-09-170-919-5	Sequence 5, Appli
11	86	100.0	17	17	US-09-341-590-39	Sequence 39, Appl
12	86	100.0	17	20	US-09-657-276-919	Sequence 919, App
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15	86	100.0	134	24	US-60-160-203-6127	Sequence 6127, Ap
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21	83	96.5	17	13	US-08-927-328-8	Sequence 8, Appli
22	81	94.2	17	9	US-08-514-451-6	Sequence 6, Appli
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38	62	72.1	16	13	US-08-927-328-15	Sequence 15, Appl
39	61	70.9	16	13	US-08-927-328-19	Sequence 19, Appl
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41	57	66.3	15	13	US-08-927-328-14	Sequence 14, Appl
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43	57	66.3	16	13	US-08-927-328-16	Sequence 16, Appl
44	57	66.3	16	13	US-08-927-328-18	Sequence 18, Appl
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; Sequence 5, Application US/08514451
   GENERAL INFORMATION:
     APPLICANT: Bunzow, James R
     APPLICANT: Grandy, David K
    APPLICANT: Civelli, Olivier
    APPLICANT: Reinscheid, Rainer K
    APPLICANT: Nothacker, Hans-Peter
    APPLICANT: Monsma, Frederick J
    TITLE OF INVENTION: A Novel Mammalian Methadone-Specific
     TITLE OF INVENTION: Opioid Receptor Gene and Uses
    NUMBER OF SEQUENCES: 6
     CORRESPONDENCE ADDRESS:
      ADDRESSEE: Banner & Allegretti, Ltd.
      STREET: 10 South Wacker Drive, Suite 3000
      CITY: Chicago
      STATE: Illinois
      COUNTRY: USA
      ZIP: 60606
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy disk
       COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/514,451
      FILING DATE: 11-AUG-1995
      CLASSIFICATION: 530
    ATTORNEY/AGENT INFORMATION:
      NAME: Noonan, Kevin E
      REGISTRATION NUMBER: 35,303
      REFERENCE/DOCKET NUMBER: 93,311-A
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 312-715-1000
      TELEFAX: 312-715-1234
      TELEX: 910-221-5317
   INFORMATION FOR SEQ ID NO: 5:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 17 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
    MOLECULE TYPE: peptide
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    APPLICANT: Grisel, Judith E.
    APPLICANT: Grandy, David K.
    APPLICANT: Mogil, Jeffrey S.
    TITLE OF INVENTION: Opioid Antagonists and Methods of Their Use
    NUMBER OF SEQUENCES: 10
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Klarquist Sparkman Campbell Leigh
      ADDRESSEE: & Whinston LLP
      STREET: 121 S.W. Salmon, Suite 1600
      CITY: Portland
      STATE: Oregon
      COUNTRY: USA
      ZIP: 97204
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy Disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
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      FILING DATE: 11/13/95
      CLASSIFICATION: 514
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER:
      FILING DATE:
    ATTORNEY/AGENT INFORMATION:
      NAME: William D. Noonan, M.D.
      REGISTRATION NUMBER: 30,878
      REFERENCE/DOCKET NUMBER: 899-40006/WDN
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: (503) 226-7391
      TELEFAX: (503) 228-9446
   INFORMATION FOR SEQ ID NO: 5:
    SEQUENCE CHARACTERISTICS:
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      TYPE: amino acid
      TOPOLOGY: linear
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; Sequence 1, Application US/08868355
; GENERAL INFORMATION:
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APPLICANT: Civelli, Olivier
     APPLICANT: Martin, James R.
     APPLICANT: Monsma, Frederick
     APPLICANT: Moreau, Jean-Luc
     APPLICANT: Nothacker, Hans-Peter
     APPLICANT: Reinscheid, Rainer
     TITLE OF INVENTION: MODULATION OF LC132 (OPIOID-LIKE)
     TITLE OF INVENTION: RECEPTOR FUNCTION
     NUMBER OF SEQUENCES: 1
     CORRESPONDENCE ADDRESS:
       ADDRESSEE: Lewis J. Kreisler
       STREET: 340 Kingsland Street
       CITY: Nutley
      STATE: New Jersey
      COUNTRY: U.S.A.
       ZIP: 07110-1199
     COMPUTER READABLE FORM:
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    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: EP 96109462.0
      FILING DATE: 13-JUN-1996
    ATTORNEY/AGENT INFORMATION:
      NAME: Kreisler, Lewis J.
      REGISTRATION NUMBER: 38,522
      REFERENCE/DOCKET NUMBER: RAN 4108/361
     TELECOMMUNICATION INFORMATION:
      TELEPHONE: (201) 235-4387
      TELEFAX: (201) 235-2363
   INFORMATION FOR SEQ ID NO: 1:
     SEQUENCE CHARACTERISTICS:
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APPLICANT: HOWARD LIPPTON
     TITLE OF INVENTION: DIURETIC AND ANTINATRIURETIC RESPONSES
     TITLE OF INVENTION: PRODUCED BY ANALOGS OF NOCICEPTIN
     NUMBER OF SEQUENCES: 31
     CORRESPONDENCE ADDRESS:
       ADDRESSEE: Pravel, Hewitt, Kimball & Krieger
       STREET: 1177 West Loop South, 10th Floor
       CITY: Houston
       STATE: TX
       COUNTRY: USA
      ZIP: 77027-9095
     COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy disk
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      FILING DATE:
    ATTORNEY/AGENT INFORMATION:
      NAME: Krieger, Paul E.
      REGISTRATION NUMBER: 25,886
      REFERENCE/DOCKET NUMBER: 42740/1
     TELECOMMUNICATION INFORMATION:
      TELEPHONE: 713-850-0909
      TELEFAX: 713-850-0165
   INFORMATION FOR SEQ ID NO: 1:
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      STRANDEDNESS: SINGLE
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; Sequence 2, Application US/09011797
; GENERAL INFORMATION:
    APPLICANT: PARMENTIER, MARC
;
    APPLICANT: VASSART, GILBERT
    APPLICANT: MEUNIER, JEAN-CLAUDE
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GENERAL INFORMATION:

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TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING PEPTIDES
    TITLE OF INVENTION: HAVING PRONOCICEPTIVE PROPERTIES
    NUMBER OF SEQUENCES: 4
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Knobbe, Martens, Olson & Bear
      STREET: 620 Newport Center Drive 16th Floor
      CITY: Newport Beach
      STATE: CA
      COUNTRY: U.S.A.
      ZIP: 92660
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
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      CLASSIFICATION: 800
   ATTORNEY/AGENT INFORMATION:
      NAME: Altman, Daniel E
      REGISTRATION NUMBER: 34,115
      REFERENCE/DOCKET NUMBER: VANMA72.001APC
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 714-760-0404
      TELEFAX: 714-760-9502
      TELEX:
  INFORMATION FOR SEQ ID NO: 2:
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; Sequence 5, Application US/09048916
  GENERAL INFORMATION:
    APPLICANT: Grisel, Judith E.
    APPLICANT: Grandy, David K.
    APPLICANT: Mogil, Jeffrey S.
    APPLICANT: Bunzow, James R.
    APPLICANT: Civelli, Olivier
    APPLICANT: Reinscheid, Rainer Klaus
```

APPLICANT: MOLLEREAU, CATHERINE

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APPLICANT: Nothacker, Hans-Peter
     APPLICANT: Monsma, Frederick James
     TITLE OF INVENTION: Opioid Antagonists and Methods of
     TITLE OF INVENTION: Their Use
     NUMBER OF SEQUENCES: 10
     CORRESPONDENCE ADDRESS:
       ADDRESSEE: Klarquist Sparkman Campbell Leigh
       ADDRESSEE: & Whinston LLP
       STREET: 121 S.W. Salmon, Suite 1600
       CITY: Portland
       STATE: Oregon
       COUNTRY: USA
       ZIP: 97204
     COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy Disk
       COMPUTER: IBM PC compatible
       OPERATING SYSTEM: PC-DOS/MS-DOS
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       SOFTWARE: WP5.1 ASCII text
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      APPLICATION NUMBER: US/09/048,916
      FILING DATE:
      CLASSIFICATION:
    PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 08/533,058
      FILING DATE: 3 November 1995
      APPLICATION NUMBER: 08/514,541
      FILING DATE: 11 August 1995
    ATTORNEY/AGENT INFORMATION:
      NAME: Richard J. Polley, Esq.
      REGISTRATION NUMBER: 28,107
      REFERENCE/DOCKET NUMBER: 899-45532/RJP
ï
     TELECOMMUNICATION INFORMATION:
      TELEPHONE: (503) 226-7391
      TELEFAX: (503) 228-9446
   INFORMATION FOR SEQ ID NO: 5:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 17 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
    MOLECULE TYPE:
      DESCRIPTION: peptide
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; GENERAL INFORMATION:
; APPLICANT: Grandy et al.
  TITLE OF INVENTION: Novel mammalian Opioid receptor ligand and uses
  FILE REFERENCE: 49888
  CURRENT APPLICATION NUMBER: US/09/048,916A
  CURRENT FILING DATE: 1999-03-26
  EARLIER APPLICATION NUMBER: 08/514,451
  EARLIER FILING DATE: 1995-08-11
  EARLIER APPLICATION NUMBER: 08/149,093
  EARLIER FILING DATE: 1993-11-08
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; GENERAL INFORMATION:
; APPLICANT: Grandy et al.
  TITLE OF INVENTION: Method of screening a compound for binding to MSOR
  FILE REFERENCE: 49888
  CURRENT APPLICATION NUMBER: US/09/048,916B
  CURRENT FILING DATE: 1998-03-26
  PRIOR APPLICATION NUMBER:
                             08/514,451
  PRIOR FILING DATE: 1995-08-11
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; Sequence 1, Application US/09114620
; GENERAL INFORMATION:
  APPLICANT: Fink-Jensen, Anders
  APPLICANT: Olsen, Uffe Bang
  TITLE OF INVENTION: Use of Nociceptin And Nociceptin
  TITLE OF INVENTION: Analoques For The Manufacture Of A Pharmaceutical
  TITLE OF INVENTION: Composition For The Treatment Of Hot Flushes
  FILE REFERENCE: 5286.200-US
  CURRENT APPLICATION NUMBER: US/09/114,620
  CURRENT FILING DATE: 1998-07-13
  EARLIER APPLICATION NUMBER: 60/052,810
  EARLIER FILING DATE: 1997-07-17
  EARLIER APPLICATION NUMBER: 0866/97
  EARLIER FILING DATE: 1997-07-15
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; Sequence 5, Application US/09170919
  GENERAL INFORMATION:
    APPLICANT: Grisel, Judith E.
    APPLICANT: Grandy, David K.
    APPLICANT: Mogil, Jeffrey S.
    TITLE OF INVENTION: Opioid Antagonists and Methods
    TITLE OF INVENTION: of Their Use
    NUMBER OF SEQUENCES: 11
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: Klarquist Sparkman Campbell
      ADDRESSEE: Leigh & Whinston LLP
      STREET: 121 S.W. Salmon, Suite 1600
      CITY: Portland
      STATE: Oregon
      COUNTRY: USA
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      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC-DOS/MS-DOS
      SOFTWARE: Version WP6, ASCII text
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      FILING DATE:
      CLASSIFICATION:
     PRIOR APPLICATION DATA:
      APPLICATION NUMBER: 08/553,058
      FILING DATE: 11/3/95
    ATTORNEY/AGENT INFORMATION:
      NAME: William D. Noonan, M.D.
      REGISTRATION NUMBER: 30,878
      REFERENCE/DOCKET NUMBER: 899-40006/WDN
     TELECOMMUNICATION INFORMATION:
      TELEPHONE: (503) 226-7391
      TELEFAX: (503) 228-9446
   INFORMATION FOR SEQ ID NO: 5:
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      TYPE: amino acid
      TOPOLOGY: linear
     MOLECULE TYPE:
      DESCRIPTION: peptide
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RESULT 11
US-09-341-590-39
; Sequence 39, Application US/09341590
; GENERAL INFORMATION:
  APPLICANT: Larsen, Bjarne Due
  TITLE OF INVENTION: PHARMACOLOGICALLY ACTIVE PEPTIDE CONJUGATES HAVING A
  TITLE OF INVENTION: REDUCED TENDENCY TOWARDS ENZYMATIC HYDROLYSIS
  FILE REFERENCE: PPT-20479-US
  CURRENT APPLICATION NUMBER: US/09/341,590
  CURRENT FILING DATE: 1999-07-03
  PRIOR APPLICATION NUMBER: DK 0317/98
  PRIOR FILING DATE: 1998-03-09
  NUMBER OF SEQ ID NOS: 121
  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 39
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   TYPE: PRT
   ORGANISM: Homo sapiens
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ZIP: 97204

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RESULT 12
US-09-657-276-919
; Sequence 919, Application US/09657276
; GENERAL INFORMATION:
  APPLICANT: Conjuchem, Inc.
  APPLICANT: Bridon, Dominique
  APPLICANT: Ezrin, Alan
  APPLICANT: Milner, Peter
  APPLICANT: Holmes, Darren
  APPLICANT: Thibaudeau, Karen
  TITLE OF INVENTION: PROTECTION OF ENDOGENOUS THERAPEUTIC PEPTIDES FROM
  TITLE OF INVENTION: PEPTIDASE ACTIVITY THROUGH CONJUGATION TO BLOOD
  TITLE OF INVENTION: COMPONENTS
  FILE REFERENCE: 2110
  CURRENT APPLICATION NUMBER: US/09/657,276
  CURRENT FILING DATE: 2000-09-07
  PRIOR APPLICATION NUMBER: 60/134,406
  PRIOR FILING DATE: 1999-05-17
  PRIOR APPLICATION NUMBER: 60/153,406
  PRIOR FILING DATE: 1999-09-10
  PRIOR APPLICATION NUMBER: 60/159,783
  PRIOR FILING DATE: 1999-10-18
  NUMBER OF SEQ ID NOS: 1617
  SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 919
   LENGTH: 17
   TYPE: PRT
   ORGANISM: Artificial Sequence
   OTHER INFORMATION: Description of Artificial Sequence: Synthetic
   OTHER INFORMATION: Peptide
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US-09-657-276-926
; Sequence 926, Application US/09657276
; GENERAL INFORMATION:
  APPLICANT: Conjuchem, Inc.
  APPLICANT: Bridon, Dominique
  APPLICANT: Ezrin, Alan
  APPLICANT: Milner, Peter
  APPLICANT: Holmes, Darren
  APPLICANT: Thibaudeau, Karen
  TITLE OF INVENTION: PROTECTION OF ENDOGENOUS THERAPEUTIC PEPTIDES FROM
  TITLE OF INVENTION: PEPTIDASE ACTIVITY THROUGH CONJUGATION TO BLOOD
  TITLE OF INVENTION: COMPONENTS
  FILE REFERENCE: 2110
  CURRENT APPLICATION NUMBER: US/09/657,276
  CURRENT FILING DATE: 2000-09-07
  PRIOR APPLICATION NUMBER: 60/134,406
  PRIOR FILING DATE: 1999-05-17
  PRIOR APPLICATION NUMBER: 60/153,406
  PRIOR FILING DATE: 1999-09-10
  PRIOR APPLICATION NUMBER: 60/159,783
  PRIOR FILING DATE: 1999-10-18
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; SEQ ID NO 926
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   TYPE: PRT
   ORGANISM: Artificial Sequence
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   OTHER INFORMATION: Peptide
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US-60-160-202-4306
; Sequence 4306, Application US/60160202
; GENERAL INFORMATION:
; APPLICANT: BONAZZI, VIVIEN
  TITLE OF INVENTION: ISOLATED HUMAN GPCR PROTEIN, NUCLEIC
  TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN GPCR PROTEINS AND USES
 FILE REFERENCE: CL000114
  CURRENT APPLICATION NUMBER: US/60/160,202
  CURRENT FILING DATE: 1999-10-19
; NUMBER OF SEQ ID NOS: 4392
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4306
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RESULT 15
US-60-160-203-6127
; Sequence 6127, Application US/60160203
; GENERAL INFORMATION:
; APPLICANT: BONAZZI, VIVIEN
; TITLE OF INVENTION: ISOLATED HUMAN SECRETED PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN SECRETED PROTEINS
AND
; TITLE OF INVENTION: USES THEREOF
  FILE REFERENCE: CL000116
; CURRENT APPLICATION NUMBER: US/60/160,203
; CURRENT FILING DATE: 1999-10-19
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Search completed: November 16, 2001, 15:49:20

Job time: 307 sec

09011797 Interference Results

SEQ ID NO: 1

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	8	308.6	33.1	645	49		Sequence 2171, Ap
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	13	267.6	28.7	589	49	US-60-168-197-252	Sequence 252, App
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	6	35	3.8	3949	5	US-09-685-791-7	Sequence 7, Appli
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4	86	100.0	17	13	US-08-927-328-1 หูให้ ๑ ๊ ๆั เ	Sequence 1, Appli
5	86	100.0	17	14	US-09-011-797-2 5	Sequence 2, Appli
6	86	100.0	17	14	US-09-048-916-5 F. AL	Sequence 5, Appli
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42	57	66.3	16	13	US-08-927-328-10	Sequence 10, Appl
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26	33.5	39.0	118	5	US-09-815-242-13222	Sequence 13222, A
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28	33.5	39.0	127	1	PCT-US01-31269-10	Sequence 10, Appl
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30	33.5	39.0	344	5	US-09-795-668-38	Sequence 38, Appl
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6	82	100.0	155	24	US-60-160-202-3958	Sequence 3958, Ap
7	76	92.7	188	1	PCT-US01-18569-3681	Sequence 3681, Ap
8	42	51.2	346	24	US-60-324-631-1830	Sequence 1830, Ap
9	40.5	49.4	2059	24	US-60-173-464-29693	Sequence 29693, A
10	40.5	49.4	2060	24	US-60-191-637-38941	Sequence 38941, A
11	40.5	49.4	2060	24	US-60-191-681-30175	Sequence 30175, A
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13	39	47.6	63	1	PCT-US00-06828-84	Sequence 84, Appl
14	39	47.6	159	16	US-09-270-767-41900	Sequence 41900, A
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23	38	46.3	384	1	PCT-US01-08631-38671	Sequence 38671, A
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25	38	46.3	414	1	PCT-US01-16450A-2318	Sequence 2318, Ap
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27	38	46.3	494	17	US-09-328-352-5284	Sequence 5284, Ap
28	38	46.3	497	22	US-09-805-020-37	Sequence 37, Appl
29	38	46.3	543	1	PCT-US01-08631-53304	Sequence 53304, A
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31	38	46.3	731	18	US-09-494-810A-7	Sequence 7, Appli
32	38	46.3	741	22	US-09-833-790-432	Sequence 432, App
33	38	46.3	757	1	PCT-US01-08631-38674	Sequence 38674, A
34	37	45.1	24	21	US-09-724-059-413838	Sequence 413838,
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36	37	45.1	24	21	US-09-724-059-421715	Sequence 421715,
37	37	45.1	24	21	US-09-724-059-421967	Sequence 421967,
38	37	45.1	24	21	US-09-724-059-446796	Sequence 446796,
39	37	45.1	. 24	21	US-09-724-059-449316	Sequence 449316,
40	37	45.1	64	16	US-09-248-796-27227	Sequence 27227, A
41	37	45.1	70	24	US-60-186-662-622	Sequence 622, App
42	37	45.1	97	1	PCT-US01-14827-12232	Sequence 12232, A
43	37	45.1	119	18	US-09-474-434-1050	Sequence 1050, Ap
44	37	45.1	119	24	US-60-173-686-1050	Sequence 1050, Ap
45	37	45.1	123	15	US-09-134-001C-3630	Sequence 3630, Ap
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3	36	43.9	102	5	US-09-815-242-12960	Sequence 12960, A
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6	34	41.5	362	5	US-09-461-436-374	Sequence 374, App
7	34	41.5	362	5	US-09-779-679-28	Sequence 28, Appl
8	34	41.5	555	5	US-09-978-189-109	Sequence 109, App
9	34	41.5	555	5	US-09-978-192-109	Sequence 109, App
10	. 34	41.5	555	5	US-09-978-697-109	Sequence 109, App
11	34	41.5	555	5	US-09-978-824-109	Sequence 109, App
12	33	40.2	315	5	US-09-897-516-5136	Sequence 5136, Ap
13	33	40.2	371	5	US-09-897-516-5976	Sequence 5976, Ap
14	33	40.2	578	5	US-09-815-242-12501	Sequence 12501, A
15	33	40.2	689	5	US-09-897-516-6629	Sequence 6629, Ap
16	32	39.0	376	5	US-09-897-516-4587	Sequence 4587, Ap
17	32	39.0	439	5	US-09-815-242-13917	Sequence 13917, A
18	32	39.0	1905	5	US-09-897-516-6551	Sequence 6551, Ap
19	31	37.8	439	5	US-09-815-242-10063	Sequence 10063, A
20	31	37.8	465	5	US-09-897-516-6575	Sequence 6575, Ap
21	31	37.8	497	5	US-09-981-353-105	Sequence 105, App
22	31	37.8	651	5	US-09-897-516-7732	Sequence 7732, Ap
23	31	37.8	657	5	US-09-815-242-13436	Sequence 13436, A
24	. 31	37.8	686	5	US-09-897-516-6833	Sequence 6833, Ap
25	31	37.8	975	5	US-09-897-516-7681	Sequence 7681, Ap
26	31	37.8	1084	5	US-09-800-187-2	Sequence 2, Appli
27	30	36.6	142	5	US-09-897-516-6053	Sequence 6053, Ap
28	30	36.6	180	5	US-09-815-242-5657	Sequence 5657, Ap
29	30	36.6	185	5	US-09-815-242-12269	Sequence 12269, A
30	30	36.6	224	5	US-09-897-516-8168	Sequence 8168, Ap
31	30	36.6	271	5	US-09-897-516-4443	Sequence 4443, Ap
32	30	36.6	290	5	US-09-815-242-13873	Sequence 13873, A
33	30	36.6	362	5	US-09-897-516-6719	Sequence 6719, Ap
34	30	36.6	441	5	US-09-897-516-7789	Sequence 7789, Ap
35	30	36.6	446	5	US-09-897-516-7790	Sequence 7790, Ap
36	30	36.6	531	5	US-09-897-516-7946	Sequence 7946, Ap
37	30	36.6	652	5	US-09-815-242-13317	Sequence 13317, A
38	30	36.6	652	5	US-09-815-242-13673	Sequence 13673, A
39	30	36.6	777	5	US-09-815-242-4894	Sequence 4894, Ap
40	30	36.6	871	5	US-09-815-242-5274	Sequence 5274, Ap
41	30	36.6	872	5	US-09-815-242-12333	Sequence 12333, A
42	30	36.6	914	5	US-09-815-242-10897	Sequence 10897, A
43	30	36.6	1089	5	US-09-769-987-2	Sequence 2, Appli
44	29.5	36.0	310	5	US-09-886-055-153	Sequence 153, App
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3	44	100.0	134	24		Sequence 4306, Ap
4	44	100.0	134	24	US-60-160-203-6127	Sequence 6127, Ap
5	44	100.0	139	24	US-60-160-203-5358	Sequence 5358, Ap
6	44	100.0	155	24	US-60-160-202-3958	Sequence 3958, Ap
7	35	79.5	170	16	US-09-248-796-15906	Sequence 15906, A
8	35	79.5	377	16	US-09-270-767-34332	Sequence 34332, A
9	35	79.5	377	16	US-09-270-767-49549	Sequence 49549, A
10	35	79.5	377	16	US-09-270-849B-180627	Sequence 180627,
11	35	79.5	559	24	US-60-248-505-822	Sequence 822, App
12	35	79.5	601	24	US-60-248-505-1284	Sequence 1284, Ap
13	35	79.5	635	16	US-09-252-991A-31646	Sequence 31646, A
14	35	79.5	1426	24	US-60-191-637-40785	Sequence 40785, A
15	35	79.5	1426	24	US-60-191-700-720	Sequence 720, App
16	35	79.5	1542	24	US-60-167-324-686	Sequence 686, App
17	35	79.5	1542	24	US-60-173-386-656	Sequence 656, App
18	35	79.5	1542	24	US-60-175-871-737	Sequence 737, App
19	35	79.5	1542	24	US-60-184-775-671	Sequence 671, App
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21	34	77.3	152	16	US-09-270-767-38731	Sequence 38731, A
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23	34	77.3	152	16	US-09-270-849B-189754	Sequence 189754,
24	34	77.3	156	1	PCT-US01-08631-50559	Sequence 50559, A
25	34	77.3	224	15	US-09-149-476-370	Sequence 370, App
26	34	77.3	224	22	US-09-809-391-370	Sequence 370, App
27	34	77.3	224	22	US-09-882-171-370	Sequence 370, App
28	34	77.3	230	22	US-09-855-768-673	Sequence 673, App
29	34	77.3	349	24	US-60-191-637-30778	Sequence 30778, A
30	34	77.3	349	24	US-60-191-681-24517	Sequence 24517, A
31	34	77.3	450	24	US-60-173-464-24182	Sequence 24182, A
32	34	77.3	451	24	US-60-175-691-147	Sequence 147, App
33	34	77.3	460	24	US-60-215-161-7857	' Sequence 7857, Ap
34	34	77.3	492	20	US-09-618-893-147	Sequence 147, App
35	34	77.3	584	1	PCT-US01-08631-50562	Sequence 50562, A
36	34	77.3	638	1	PCT-US01-08631-56551	Sequence 56551, A
37	33	75.0	120	16	US-09-248-796-17350	Sequence 17350, A
38	33	75.0	210	17	US-09-328-352-4351	Sequence 4351, Ap
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42	33	75.0.	279	10	US-08-625-811-1714	Sequence 1714, Ap
43	33	75.0	279	13	US-08-993-002A-8280	Sequence 8280, Ap
44	33	75.0	306	16	US-09-252-691-6233	Sequence 6233, Ap
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4	31	70.5	314	5	US-09-725-945-6	Sequence 6, Appli
5	31	70.5	1041	5	US-09-978-189-498	Sequence 498, App
6	31	70.5	1041	5	US-09-978-192-498	Sequence 498, App
7	31	70.5	1041	5	US-09-978-697-498	Sequence 498, App
8	31	70.5	1041	5	US-09-978-824-498	Sequence 498, App
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11	29	65.9	212	5	US-09-897-516-7312	Sequence 7312, Ap
12	29	65.9	355	5	US-09-609-360C-26	Sequence 26, Appl
13	29	65.9	355	5	US-09-345-473E-26	Sequence 26, Appl
14	29	65.9	554	5	US-09-815-242-12033	Sequence 12033, A
15	28	63.6	151	5	US-09-815-242-11515	Sequence 11515, A
16	28	63.6	200	5	US-09-545-199D-63	Sequence 63, Appl
17	28	63.6	222	5	US-09-897-516-5345	Sequence 5345, Ap
18	28	63.6	242	5	US-09-815-242-10974	Sequence 10974, A
19	28	63.6	244	5	US-09-815-242-10126	Sequence 10126, A
20	28	63.6	334	5	US-09-897-516-6895	Sequence 6895, Ap
21	28	63.6	440	5	US-09-815-242-5131	Sequence 5131, Ap
22	28	63.6	581	5	US-09-897-516-6038	Sequence 6038, Ap
23	28	63.6	613	5	US-09-897-516-5750	Sequence 5750, Ap
24	28	63.6	639	5	US-09-815-242-5390	Sequence 5390, Ap
25	28	63.6	646	5	US-09-815-242-12304	Sequence 12304, A
26	28	63.6	722	5	US-09-897-516-6067	Sequence 6067, Ap
27	28	63.6	734	5	US-09-545-199D-117	Sequence 117, App
28	28	63.6	1114	5	US-09-840-743-14	Sequence 14, Appl
29	27	61.4	75	5	US-09-969-730-139	Sequence 139, App
30	27	61.4	112	4	US-08-859-648-19	Sequence 19, Appl
31	27	61.4	112	4	US-08-859-648-25	Sequence 25, Appl
32	27	61.4	112	4	US-08-859-648-29	Sequence 29, Appl
33	27	61.4	112	4	US-08-859-648-33	Sequence 33, Appl
34	27	61.4	177	5	US-09-938-497-15	Sequence 15, Appl
35	27	61.4	218	5	US-09-897-516-5887	Sequence 5887, Ap
36	27	61.4	238	4	US-08-721-612C-19	Sequence 19, Appl
37	27	61.4	276	5	US-09-897-516-4756	Sequence 4756, Ap
38	27	61.4	277	5	US-09-897-516-7437	Sequence 7437, Ap

39	27	61.4	324	5	US-09-815-242-11345	Sequence 11345, A
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43	27	61.4	370	5	US-09-815-242-12353	Sequence 12353, A
44	27	61.4	476	5	US-09-960-643-2	Sequence 2, Appli
45	27	61.4	636	5	US-09-815-242-5838	Sequence 5838, Ap

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